

CHINMAYA B. MISHRA

GOVERNMENT POLYTECHNIC, MALKANGIRI
DEPARTMENT OF MECHANICAL ENGINEERING

<u>LESSON PLAN</u>		
Discipline: Mechanical Engineering	Semester: 5th	Name of the Teaching Faculty: CHINMAYA BRAHMADARSHI MISHRA
Subject: EMST	No. of days/week class allotted 4	Semester From date: _____ To date: _____ No. of Week: 15
PRE-REQUISITE	ENTREPRENEURSHIP AND MANAGEMENT & SMART TECHNOLOGY	
Course Outcomes	1. Know about Entrepreneurship, Types of Industries and Startups 2. Know about various schemes of assistance by entrepreneurial support agencies 3. Conduct market survey 4. Prepare project report 5. know the management Principles and functional areas of management 6. Know about IOT and its Application in SMART Environment.	
Week	Class Day	Theory/Practical Topics
1st	1st	Concept /Meaning of Entrepreneurship
	2nd	Need of Entrepreneurship
	3rd	Characteristics, Qualities and Types of entrepreneur, Functions
	4th	Barriers in entrepreneurship
2nd	1st	Entrepreneurs vrs. Manager
	2nd	Forms of Business Ownership: Sole proprietorship, partnership forms and others
	3rd	Types of Industries, Concept of Start-ups
	4th	Entrepreneurial support agencies at National
3rd	1st	State, District Level(Sources): DIC, NSIC,OSIC, SIDBI, NABARD, Commercial Banks, KVIC etc.
	2nd	Technology Business Incubators (TBI) and Science and Technology Entrepreneur Parks
	3rd	Business Planning
	4th	SSI, Ancillary Units
4th	1st	Tiny Units, Service sector Units
	2nd	Time schedule Plan
	3rd	Agencies to be contacted for Project Implementation
	4th	Assessment of Demand and supply and Potential areas of Growth
5th	1st	Identifying Business Opportunity
	2nd	Final Product selection
	3rd	Preliminary project report
	4th	Detailed project report
6th	1st	Techno economic Feasibility
	2nd	Project Viability
	3rd	Definitions of management
	4th	Principles of management
7th	1st	Functions of management (planning, organising, staffing, directing and controlling etc.)
	2nd	Functions of management (planning, organising, staffing, directing and controlling etc.)
	3rd	Level of Management in an Organisation
	4th	a) Production management Functions, Activities Productivity Quality control Production Planning and control
8th	1st	b) Inventory Management Need for Inventory management Models/Techniques of Inventory management
	2nd	c) Financial Management Functions of Financial management Management of Working capital

	3rd	Costing (only concept) Break even Analysis
	4th	Brief idea about Accounting Terminologies: Book Keeping, Journal entry
9th	1st	Petty Cash book, P&L Accounts, Balance Sheets(only Concepts)
	2nd	d) Marketing Management Concept of Marketing and Marketing Management Marketing Techniques (only concepts)
	3rd	Concept of 4P s (Price, Place, Product, Promotion)
	4th	e) Human Resource Management Functions of Personnel Management Manpower Planning, Recruitment, Sources of manpower
10th	1st	Selection process, Method of Testing, Methods of Training & Development, Payment of Wages
	2nd	a) Leadership Definition and Need/Importance
	3rd	Qualities and functions of a leader Manager Vs Leader Style of Leadership (Autocratic, Democratic, Participative)
	4th	b) Motivation Definition and characteristics Importance of motivation
11th	1st	Theories of motivation (Maslow)
	2nd	Methods of Improving Motivation Importance of Communication in Business
	3rd	Types and Barriers of Communication
	4th	Human relationship and Performance in Organization
12th	1st	Relations with Peers, Superiors and Subordinates
	2nd	TQM concepts: Quality Policy
	3rd	Accidents and Safety, Cause, preventive measures
	4th	General Safety Rules , Personal Protection Equipment(PPE)
13th	1st	a) Intellectual Property Rights(IPR)
	2nd	Patents,
	3rd	Trademarks
	4th	Copyrights
14th	1st	b) Features of Factories Act 1948 with Amendment (only salient points)
	2nd	c) Features of Payment of Wages Act 1936 (only salient points)
	3rd	Concept of IOT, How IOT works
	4th	Components of IOT, Characteristics of IOT
15th	1st	Categories of IOT
	2nd	Applications of IOT- Smart Cities, Smart Transportation
	3rd	Smart Home, Smart Healthcare, Smart Industry
	4th	Smart Agriculture, Smart Energy Management etc.

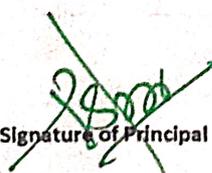
Learning Resources:

- 1.R.K SINGHAL , - ENTREPRENEURSHIP DEVELOPMENT AND MANAGEMENT
- 2.VASANT DESAI,- ENTREPRENEURSHIP DEVELOPMENT AND MANAGEMENT
- 3.O.P KHANNA,-INDUSTRIAL ENGINEERING AND MANAGEMENT
- 4.S.JEEVA JOSE,- INTERNET OF THINGS

Chinmaya Brahmadarshi
Mishra
Signature
of Faculty


Signature of HOD/


Signature of Academic
Coordinator


Signature of Principal